

## REMARKS

In the Office Action of May 17, 2004, claims 19-22 were rejected under 35 U.S.C. 102(b) as anticipated by Sample USP 6,020,760. Claims 23-26 were rejected for obvious-type double patenting over claims 19, 20 and 24 of USP 6,686,769; and claims 27-31 were rejected as claiming the same inventions as claims 25-29 of USP 6,686,769.

Claim 19 has been amended to recite a first input register in addition to the first and second output registers previously recited. Since Sample does not disclose or suggest the use of separate input and output registers, claim 19 as amended is not anticipated by Sample. For the same reason dependent claims 20-22, and newly added dependent claims 37 and 38 are likewise not anticipated by Sample.

In response to the double patenting rejection of claims 23-26, a terminal disclaimer is being filed herewith. In reviewing these claims, it was realized that the text of first line of claim 23 of the preliminary amendment filed with the application does not show the changes made between this version of the claim and the text of the claim as originally presented in the parent application. Specifically, the words "logic device having a logic array, a" were deleted. Similarly, claims 24 and 25 were changed so that the beginning of each claim recited "The I/O element circuits of . . ." instead of "the logic device of" in the parent application.

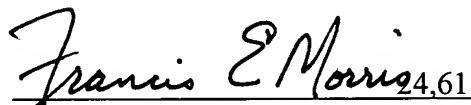
With respect to claim 27, the last two lines have been deleted thereby making this claim different from claim 25 of USP 6,686,769. Dependent claims 28-31 are therefore different as well from claims 26-29 of USP 6,686,769. Claims 32-36 have been added which are also dependent on claim 27.

In response to the requirement for submission of corrected drawings, a new set of formal drawings is submitted herewith.

In light of the above amendments and remarks, the applicants respectfully request that the Examiner reconsider this application with a view towards allowance. The Examiner is invited to call the undersigned at (212) 309-6632, if a telephone call could help resolve any remaining items.

Respectfully submitted.

Date: August 17, 2004

  
\_\_\_\_\_  
Francis E. Morris <sup>24,615</sup> (Reg. No.)  
**MORGAN, LEWIS & BOCKIUS, LLP**  
101 Park Avenue  
New York, NY 10128  
(212) 309-6632